

Substitute for form 1449B/PTO				<b>Complete If Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/044,692
				Filing Date	January 11, 2002
				First Named Inventor	
				Art Unit	1642
				Examiner Name	Ungar, Susan NMN
Sheet	3	of	18	Attorney Docket Number	015389-002640JS

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/PR/	1	US 2003-0096344 A1	05-22-2003	Cech et al.	
/PR/	2	US 2004-0242529 A1	12-02-2004	Cech et al.	
/PR/	3	US 2004-0247613 A1	12-09-2004	Cech et al.	
/PR/	4	US 2005-0013825 A1	01-20-2005	Cech et al.	
/PR/	5	US 4,554,101	11-19-1985	Hopp	
/PR/	6	US 5,001,225	03-19-1991	Taylor	
/PR/	7	US 5,075,227	12-24-1991	Hagen	
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/PR/	9	US 5,853,719	12-29-1998	Nair et al.	
/PR/	10	US 5,919,656	07-06-1999	Harrington et al.	
/PR/	11	US 5,919,676	07-06-1999	Graham et al.	
/PR/	12	US 6,120,764	09-19-2000	Graham et al.	
/PR/	13	US 6,140,087	10-31-2000	Graham et al.	
/PR/	14	US 6,306,388 B1	10-23-2001	Nair et al.	
/PR/	15	US 6,387,701 B1	05-14-2002	Nair et al.	
/PR/	16	US 7,262,174 B2	08-28-2007	Jiang et al.	
/PR/	17	US 7,262,288 B1	08-28-2007	Cech et al.	
/PR/	18	US 7,285,639 B2	10-23-2007	Cech et al.	
/PR/	19	US Appl. No. 08/974,584		Cech et al.	
/PR/	20	US Appl. No. 09/721,477		Cech et al.	
/PR/	21	US 6,872,518 B2	03-29-2005	Zauderer	

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		Country	Number <sup>4</sup>	Kind Code <sup>5</sup> (if any)		T <sup>6</sup>
	22	CA	2,184,393	A1	01-25-1999	Genon Corporation
	23	EP	0 700 046	A2	10-09-1997	Cold Spring Harbor Lab.

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/PR/	29	WO	00/73420	A2	12-07-2000	Whitehead Inst. et al.		<input type="checkbox"/>
/PR/	30	WO	01/60391	A1	08-23-2001	Regents of the Univ. of California		<input type="checkbox"/>
/PR/	31	WO	02/094213	A2	11-28-2002	Dow Corning Toray Silicone Co., Ltd.		<input type="checkbox"/>
/PR/	32	WO	03/038047	A2	05-08-2003	Baylor College of Medicine		<input type="checkbox"/>
/PR/	33	WO	96/01835	A1	01-25-1996	Geron Corporation		<input type="checkbox"/>
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/PR/	35	EP	1 093 381	B1	08-20-2003	GemVax AS		<input type="checkbox"/>
	36	NO	158881		07-06-1999	Norsk Hydro ASA		<input type="checkbox"/>
	37	EP	0 907 379	B4	05-26-2005	CpImmune Inc.		<input type="checkbox"/>

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/PR/	38	ALBERTS, B. et al., <u>Molecular Biology of the Cell</u> , Newton Press Inc., New York, p. 326, Fig. 7-43 (July 20, 1995).	
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/PR/	47	BOCZKOWSKI, D. et al., "Dendritic cells pulsed with RNA are potent antigen-presenting cells in vitro and in vivo," <i>J. Exp. Med.</i> 184:465-72 (1996).		
/PR/	48	BOWIE, J. et al., "Deciphering the message in protein sequences: tolerance to amino acid substitutions," <i>Science</i> 257:1306-10 (1990).		
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/PR/	50	BRYAN, T. et al., "A mutant of <i>Tetrahymena</i> telomerase reverse transcriptase with increased processivity," <i>J. Biol. Chem.</i> 275:24199-207 (2000).			
/PR/	51	BRYAN, T. et al., "Telomerase RNA bound by protein motifs specific to telomerase reverse transcriptase," <i>Molec. Cell</i> 6:493-99 (2000).			
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/PR/	54	COLGIN, L. et al., "The hTERT $\alpha$ splice variant is a dominant negative inhibitor of telomerase activity," <i>Neoplasia</i> 2(5):426-32 (2000).			
	55	<del>CREIGHTON, T., <i>Proteins: Structures and Molecular Principles</i>, W.H. Freeman and Co., New York, Table of Contents (1983).</del>			
/PR/	56	DAGARAG, M. et al. "Differential impairment of lytic and cytokine functions in senescent human immunodeficiency virus type 1 specific T lymphocytes," <i>J. Virology</i> 77(5):3077-83 (2003).			
/PR/	57	DIEFFENBACH, C. & DVEKSLER, G. (Eds.), <i>PCR Primer, A Laboratory Manual</i> , CSHL Press, Woodbury, New York, Table of Contents (1995).			
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/PR/	59	EMBL Database entry Martin-Rivera et al., AF073311, XP002091314 (September 9, 1998).			

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/PR/	60	FARMERY, M. & BULLEID, N., "Major histocompatibility class I folding, assembly, and degradation: A paradigm for two-stage quality control in the endoplasmic reticulum," <i>Prog. Nucl. Acid Res. Mol. Biol.</i> 67:235-68 (2001).		
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/PR/	70	HAERING, C. et al., "Analysis of telomerase catalytic subunit mutants <i>in vivo</i> and <i>in vitro</i> in <i>Schizosaccharomyces pombe</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 97:6367-72 (2000).		
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/PR/	79	HERNÁNDEZ, J. et al., "Identification of a human telomerase reverse transcriptase peptide of low affinity for HLA A2.1 that induces cytotoxic T lymphocytes and mediates lysis of tumor cells," <i>Proc. Natl. Acad. Sci. USA</i> 99(19):12275-80 (2002).		

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/PR/	80	HIRASHIMA, M. "Ecalectin/galectin-9, a novel eosinophil chemoattractant: Its function and production," <i>Int. Arch. Allergy Immunol.</i> 122(Suppl. 1):6-9 (2000).		
/PR/	81	HUSTON, J. et al., "Protein engineering of antibody binding sites: Recovery of specific activity in an anti-digoxin single-chain Fv analogue produced in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 85:5879-83 (1988).		
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/PR/	86	KIYONO, T. et al., "Both Rb/p16 <sup>INK4a</sup> inactivation and telomerase activity are required to immortalize human epithelial cells," <i>Nature</i> 396:84-8 (Nov. 1998).		
/PR/	87	KRAMS, M. et al., "Regulation of telomerase activity by alternate splicing of human telomerase reverse transcriptase mRNA in a subset of neuroblastomas," <i>Am. J. Pathol.</i> 159(5):1925-32 (2001).		
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/PR/	90	LANGFORD, L. et al., "Telomerase activity in ordinary meningiomas predicts poor outcome," <i>Hum. Pathol.</i> 28(4):416-20 (1997).		
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/PR/	96	Microbix Biosystems, Inc., AdMax™ adenovirus vector creation kits, 3 pages. <a href="http://www.microbix.com/products/PDFs/AdMaxVectorCreationKits.pdf">http://www.microbix.com/products/PDFs/AdMaxVectorCreationKits.pdf</a>		
/PR/	97	MORIN, G., "The implications of telomerase biochemistry for human disease," <i>Eur. J. Cancer</i> 33(5):750-60 (1997).		
/PR/	98	MURASAWA, S. et al., "Constitutive human telomerase reverse transcriptase expression enhances regenerative properties of endothelial progenitor cells," <i>Circulation</i> 106:1133-9 (2002).		
/PR/	99	MURRAY, R. <u>McGraw Hill Yearbook of Science and Technology</u> , pp. 191-196, McGraw Hill, New York (1992).		

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/PR/	100	NAIR, D. et al., "Crystal structure of an antibody bound to an immunodominant peptide epitope: Novel features in peptide-antibody recognition," <i>J. Immunol.</i> 165(12):6949-55 (2000).		
/PR/	101	NAIR, S. et al., "Antigen-presenting cells pulsed with unfractionated tumor-derived peptides are potent tumor vaccines," <i>Eur. J. Immunol.</i> 27:589-97 (1997).		
/PR/	102	NAIR, S. et al., "Induction of cytotoxic t cell responses and tumor immunity against unrelated tumors using telomerase reverse transcriptase RNA transfected dendritic cells," <i>Nature Med.</i> 6(8):1011-7 (2000).		
/PR/	103	NGO, J. et al., <i>The Protein Folding Problem and Tertiary Structure Predictor</i> , Mertz et al., Eds., Birkhauser, Boston, pp. 433, 492-5 (1994).		
/PR/	104	O'HARE, M. et al., "Conditional immortalization of freshly isolated human mammary fibroblasts and endothelial cells," <i>Proc. Natl. Acad. Sci.</i> 98(2):646-51 (2001).		
/PR/	105	OHYASHIKI, J. et al., "Quantitative relationship between functionally active telomerase and major telomerase components (hTERT and hTR) in acute leukaemia cells," <i>Brit. J. Cancer</i> 92:1942-7 (2005)		
/PR/	106	PEAR, W. et al., "Production of high-titer helper-free retroviruses by transient transfection," <i>Proc. Natl. Acad. Sci USA</i> 90:8392-6 (1993).		
/PR/	107	PEREZ, H. et al., "Human formyl peptide receptor ligand binding domain(s). Studies using an improved mutagenesis/expression vector reveal a novel mechanism for the regulation of receptor occupancy," <i>J. Biol. Chem.</i> 269(36):22485-7 (1994).		
/PR/	108	PING, L. et al., "Dramatic increase of telomerase activity during dendritic cell differentiation and maturation," <i>J. Leukoc. Biol.</i> 74:270-6 (2003).		
	109	Protein Nucleic Acid and Enzyme 42(9):1407-19 (July 1997). Japanese language document <b>No Translation</b>		

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NON PATENT LITERATURE DOCUMENTS				
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/PR/	110	RAMIREZ, R. et al., "Putative telomere-independent mechanisms of replicative aging reflect inadequate growth conditions," <i>Genes Dev.</i> 15:398-403 (2001).		
/PR/	111	RUDOLPH, K. et al., "Inhibition of experimental liver cirrhosis in mice by telomerase gene delivery," <i>Science</i> 287:1253-8 (2000).		
/PR/	112	SADELAIN, M. et al., "Generation of a high-titer retroviral vector capable of expressing high levels of the human $\beta$ -globin gene," <i>Proc. Natl. Acad. Sci. USA</i> 92:6728-32 (1995).		
/PR/	113	SAMBROOK, J. et al., Chapter 16: "Expression of Cloned Genes in Cultured Mammalian Cells," <i>Molecular Cloning, A Laboratory Manual</i> , CSHL Press, Plainview NY (1989).		
/PR/	114	SAMBROOK, J. et al., Chapter 17, "Expression of Cloned Genes in <i>Escherichia coli</i> ," <i>Molecular Cloning, A Laboratory Manual</i> , CSHL Press, Plainview, NY (1989).		
/PR/	115	SAMBROOK, J. et al., Chapter 8: "Construction and Analysis of cDNA Libraries," <i>Molecular Cloning, A Laboratory Manual</i> , CSHL Press, Plainview, NY (1989).		
/PR/	116	SKOLNICK, J. & FETROW, J., "From genes to protein structure and function: Novel applications of computational approaches in the genomic area," <i>Tibtech</i> 18:34-9 (2000).		
/PR/	117	SOLHEIM, J., "Class I MHC molecules: Assembly and antigen presentation," <i>Immunol. Rev.</i> 172:11-19 (1999).		
/PR/	118	Stratagene Catalog, p. 39 (1988).		
/PR/	119	SU, Z. et al., "Immunological and clinical responses in metastatic renal cancer patients vaccinated with tumor RNA-transfected dendritic cells," <i>Cancer Res.</i> 63:2127-33 (2003).		

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/PR/	120	TANI, K. et al., "Transduction of LacZ gene into leukemia cells using viral vectors of retrovirus and adenovirus," <i>Leukemia</i> 9(Suppl. 1):S64-5 (1995).		
	121	<del>The Adjustment Foundation of Science and Technology Promotion News, Vol. 180 (1997 Jul 14) p. 0-6.</del>		
	122	<del>Tissue Culture, vol. 23(1) (1997 Jan) p. 4-11 Japanese language document</del> No Translation		
/PR/	123	VAZIRI, H. & BENCHIMOL, S., "Reconstitution of telomerase activity in normal human cells leads to elongation of telomeres and extended replicative life span," <i>Curr. Biol.</i> 8(5):279-82 (1998).		
/PR/	124	VERMA, R. & BABU, S., <u>Human Chromosomes: A Manual of Basic Techniques</u> , Pergamon Press, New York, Table of Contents (1988).		
/PR/	125	XIA, J. et al., "Identification of functionally important domains in the N-terminal region of telomerase reverse transcriptase," <i>Mol. Cell. Biol.</i> 20:5196-207 (2000).		
/PR/	126	YI, X. et al., "Quantitation of telomerase components and hTERT mRNA splicing patterns in immortal human cells," <i>Nucl. Acids Res.</i> 23:4818-25 (2001).		
	127	OKADA, Y. & IKEDA, J. (Eds.), "Expression of information and control in higher plant," <i>Development of Molecular Biology 13</i> , Japanese Molecular Biology Association edition, Maruzen Corp. pp. 262-263 (Feb 10, 1990).		
	128	ZAKHAROVA, O. et al., "Structural constraints in the HIV-1 reverse transcriptase-primer/template complex for the initiation of DNA synthesis from primer tRNA <sup>lys</sup> ," <i>Biochem.</i> 37:13343-8 (1998).		
/PR/	129	Accession No. AA281296, GenBank (Apr 2/97).		<input type="checkbox"/>

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/PR/	130	KEITH et al, Telomerase-Directed Molecular Therapeutics, Exp Rev Mol Med (Apr 22/02).	<input type="checkbox"/>		
/PR/	131	LEMOINE et al, Mutant Oncogenes, Targets for Therapy, Chapman & Hall Med (1993).	<input type="checkbox"/>		
/PR/	132	Prendergast's Applications, Judgment of UK Patents Court, Reports of Patent Cases, p446 (Jul 07/99).	<input type="checkbox"/>		
/PR/	133	Prendergast's Applications, Judgment of UK Patents Court, Reports of Patent Cases, p446 (Jul 07/99).	<input type="checkbox"/>		
/PR/	134	GANDHI et al, Interaction of Recombinant <i>Tetrahymena</i> Telomerase Proteins p80 and p95 with Telomerase RNA and Telomeric DNA Substrates, Genes & Dev 12:721 (1988).	<input type="checkbox"/>		
/PR/	135	BROWN et al, Vaccine Design – Requirements for the Induction of Immunity, Mol Med Sci Series, p25 (1993).	<input type="checkbox"/>		
/PR/	136	STITES et al, Clinical Laboratory Methods for Detection of Cellular Immune Function, Basic & Clin Immunol 20:353 (1984).	<input type="checkbox"/>		
/PR/	137	ROITT et al, Hypersensitivity – Type I, Immunol (1996) 22.1. and Roitt et al, Hypersensitivity – Type IV, Immunol (1996) 25.1.	<input type="checkbox"/>		
/PR/	138	PARKER et al, Scheme for Ranking Potential HLA-A2 Binding Peptides Based on Independent Binding of Individual Peptide Side-Chains, J Immunol 152(1):163 (1994).	<input type="checkbox"/>		
/PR/	139	Results of search for HLA-A2.1 sequences motifs in hTRT, BIMAS web (Dec 19/00).	<input type="checkbox"/>		

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/PR/	140	DAVENPORT et al, An Empirical Method for the Prediction of T-Cell Epitopes, Immunogen 42:392 (1995).	<input type="checkbox"/>	
/PR/	141	MEISTER et al, Two Novel T Cell Epitope Prediction Algorithms Based on MHC-Binding Motifs: Comparison of Predicted and Published Epitopes from <i>Mycobacterium Tuberculosis</i> and HIV Protein Sequences, Vaccine 13(6):581 (1995).	<input type="checkbox"/>	
/PR/	142	HAMMER et al, HLA Class II Peptide Binding Specificity and Autoimmunity, Advances in Immunol 66:67 (1997).	<input type="checkbox"/>	
/PR/	143	GAUDERNACK et al, Clinical Trials of a Peptide Based Vaccine Targeting Telomerase, Abstract P11, British Assn Cancer Res Conf (Oct 12/04).	<input type="checkbox"/>	
/PR/	144	Declaration of Prof. David Sherratt, w/ CV, Apr 13/06.	<input type="checkbox"/>	
/PR/	145	SCARDINO et al, HER-2/neu and hTERT Cryptic Epitopes as Novel Targets for Broad Spectrum Tumor Immunotherapy, J Immunol 168:5900 (2002).	<input type="checkbox"/>	
/PR/	146	Declaration of Dr. Scott L Weinrich, Dec 23/99.	<input type="checkbox"/>	
/PR/	147	SCHROERS et al, Human Telomerase Reverse Transcriptase-Specific T-Helper Responses Induced by Promiscuous Major Histocompatibility Complex Class II-Restricted Epitopes, Clin Cancer Res 9:4743 (Oct 15/03).	<input type="checkbox"/>	
/PR/	148	Declaration of Dr. Calvin Harley, w/ CV, Apr 12/06.	<input type="checkbox"/>	
/PR/	149	Results of search for HLA-A2.1 sequences motifs in hTERT, BIMAS web (Jul 5/04).	<input type="checkbox"/>	

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/PR/	150	BRYAN et al, Telomerase Reverse Transcriptase Genes Identified in <i>Tetrahymena Thermophila</i> and <i>Oxytricha Trifallax</i> , PNAS 95:8479 (Jul 98).			<input type="checkbox"/>
/PR/	151	Results of search for HLA-A2.1 sequences motifs in hTERT, BIMAS web (Jul 5/04).			<input type="checkbox"/>
/PR/	152	Declaration of Prof. David Wraith, w/ CV, Exhibits, Apr 9/06. Magee et al, Exhibit 1 – Two Classes of Fatty Acid Acylated Proteins Exist in Eukaryotic Cells, EMBO J 4(5):1137 (1985). Klockmann et al, Exhibit 2 – Evidence for Transmembrane Orientation of Acylated Simian Virus 40 Large T Antigen, J Virology 56(2):541 (Nov 85). Bockenstedt et al, Exhibit 3 – Self-Peptides in the Initiation of Lupus Autoimmunity, J Immunology 154:3516 (1995).			<input type="checkbox"/>
PR/	153	Results of search for HLA-A2.1 sequences motifs in hTERT, BIMAS web (Jul 5/04).			<input type="checkbox"/>
/PR/	154	Declaration of Anish Majumdar Ph.D., w/ CV, Exhibits, Feb 8/06.			<input type="checkbox"/>
/PR/	155	Results of search for HLA-A2.1 sequences motifs in hTERT, BIMAS web (Jul 5/04).			<input type="checkbox"/>
/PR/	156	RUPPERT et al, Prominent Role of Secondary Anchor Residues in Peptide Binding to HLA-A2.1 Molecules, Cell 74:929 (Sep 10/93).			<input type="checkbox"/>
/PR/	157	Results of search for HLA-A2.1 sequences motifs in hTERT, BIMAS web (Jul 5/04).			<input type="checkbox"/>
/PR/	158	CELIS et al, Identification of Potential CTL Epitopes of Tumor-Associated Antigen Mage-1 for Five common HLA-A Alleles, Mol Immunol 31(18):1423 (1994).			<input type="checkbox"/>

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	159	Sequence comparison of the sequence of D1, <del>EMBL</del>		<input type="checkbox"/>
/PR/	160	CELIS et al, Epitope Selection and Development of Peptide Based Vaccines to Treat Cancer, Cancer Biol 6:329 (1995).		<input type="checkbox"/>
/PR/	161	SUNG et al, The Pleiotropy of Telomerase Against Cell Death, Mol Cells 19(3):303 (Jun 05).		<input type="checkbox"/>
/PR/	162	APPELLA et al, Synthetic Antigenic Peptides as a New Strategy for Immunotherapy of Cancer, PNAS 1:177 (1995).		<input type="checkbox"/>
/PR/	163	PARMIANI et al, Cancer Immunotherapy with Peptide-Based Vaccines: What Have We Achieved? Where Are We Going? J Natl Cancer Inst 94(11):805 (Jun 5/02).		<input type="checkbox"/>
	164	<del>Printout showing electronic Parker Algorithm, BIMAS web (Feb 16/06)</del>		<input type="checkbox"/>
/PR/	165	Cancer Vaccination review, Biotext. (2006)		<input type="checkbox"/>
	166	<del>Printout of Algorithm applied to HTRF sequence, BIMAS web (Dec 14/04).</del>		<input type="checkbox"/>
/PR/	167	ZAUDERER, (U Rochester), Methods for Selecting Polynucleotides Encoding T Cell Epitopes, USP 6,872,518 (Mar 29/05).		<input type="checkbox"/>
/PR/	168	RAJAGOPAL et al, Diversity and Overlap in the Mechanisms of Processing Protein Antigens for Presentation to T Cells, Indian J Med Res 120:75 (Aug 04).		<input type="checkbox"/>

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/PR/	169	Declaration of Dr. Alessandro Sette, w/ CV, Apr 11/06.	<input type="checkbox"/>	
/PR/	170	VONDERHEIDE et al, The Telomerase Catalytic Subunit is a Widely Expressed Tumor-Associated Antigen Recognized by Cytotoxic T Lymphocytes, Immunity 10:673 (Jun 89).	<input type="checkbox"/>	
/PR/	171	MINEV et al, Cytotoxic T Cell Immunity Against Telomerase Reverse Transcriptase in Humans, PNAS 97(9):4796 (Apr 25/00).	<input type="checkbox"/>	
/PR/	172	VONDERHEIDE, Telomerase as a Universal Tumor-Associated Antigen for Cancer Immunotherapy, Oncogene 21:674 (2002).	<input type="checkbox"/>	
/PR/	173	VONDERHEIDE et al, Vaccination of Cancer Patients Against Telomerase Induces Functional Antitumor CD8+ T Lymphocytes, Clin Cancer Res 10:828 (Feb 1/04).	<input type="checkbox"/>	
/PR/	174	AYYOUB et al, Lack of Tumor Recognition by hTERT Peptide 540-548-Specific CD8+ T Cells from Melanoma Patients Reveals Inefficient Antigen Processing, Eur J Immunol 31:2642 (2001).	<input type="checkbox"/>	
/PR/	175	GROSS, et al, High Vaccination Efficiency of Low-Affinity Epitopes in Antitumor Immunotherapy, J Clin Invest 113(3):425 (Feb 04).	<input type="checkbox"/>	
/PR/	176	Interlocutory decision in Opposition Proceeding (Articles 102(3) and 106(3) EPC for EP Application 97 307 757.1-2406 / 841397 / 01	<input type="checkbox"/>	

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